

1144-4.

Unit No.: X3698
Index: B580: A120.0(F)
(Replacing X3358)
2-15-40

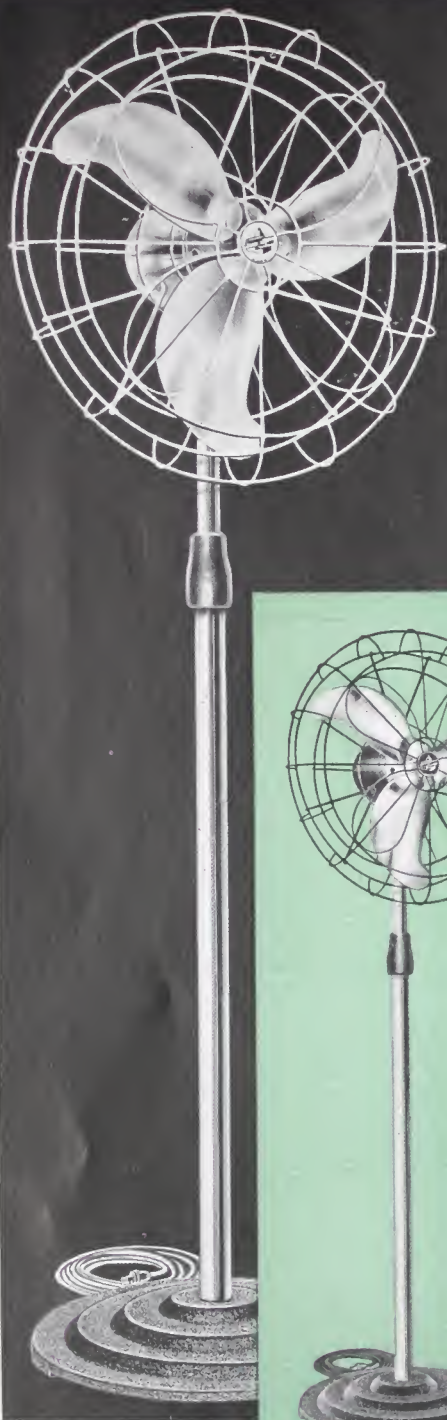
AIR CIRCULATORS



EMERSON



ELECTRIC



Type S60WS

Type
S60WA

Lower Prices for 1940

EMERSON-ELECTRIC AIR CIRCULATORS

**24-INCH AND 30-INCH
2-SPEED A. C. AND D. C. FANS**

The American public is very definitely educated to the comfort and pleasure of proper ventilation and air circulation during the hot summer months. And every business man, whether he operates a store, shop, restaurant, hotel or factory, should realize the importance of making his establishment a comfortable place in which to work or do business.

Emerson-Electric Air Circulators provide the most economical cooling and ventilation for all types of business. Their ability to deliver large quantities of cooling, penetrating breezes—to give long hours of continuous trouble-free service—their quiet and low cost operation make them ideal for modern summer comfort. New uses for Emerson-Electric Air Circulators are being discovered right along—such as cooling closed frame and switch rooms in telephone buildings, air distribution in refrigeration rooms, preventing the entry of flies in food and dairy plants, in steel mills and other heavy industries. In the home, Emerson-Electric Air Circulators are installed in basements or attics to dispel the accumulated heat of the day after sundown and to bring in the cool evening air.

Emerson-Electric Air Circulators are available in five models, 3 and 4-blade fans, each with adjustable floor-column, counter-column, ceiling or wall-bracket mountings. Heavy-duty, grease-packed, ball-bearing motors give 6000 hours (3 average seasons) of continuous service without re-lubrication. All types have fully-enclosed, streamlined, ball-bearing motors, polished blades and ornamental guards. This, and the pages following give detailed information about the entire line of Emerson-Electric Air Circulators.

ONE-YEAR GUARANTEE

Size	No. Blades	Volts	Current	Speeds	R. P. M. and Watts	*Air Delivery	‡Air Delivery	Weight		Type No.	Code Word	List Price
								Net	Packed			
STANDARD FINISH												
24"	3	115	60 cy.	2	1140 rpm 270 watts	4800 CFM	8,000 CFM	37	52	S60WA	KODOR	\$49.00
					860 rpm 170 watts	3600 CFM	6,000 CFM					
30"	3	115	60 cy.	2	1140 rpm 355 watts	6000 CFM	10,000 CFM	41	63	S60WS	KEDUR	62.50
					860 rpm 195 watts	4500 CFM	7,500 CFM					
24"	3	115	D. C.	2	1140 rpm 260 watts	4800 CFM	8,000 CFM	39	54	D60TJ	TAKOL	64.00
					750 rpm 140 watts	3100 CFM	5,200 CFM					
30"	3	115	D. C.	2	1140 rpm 285 watts	6000 CFM	10,000 CFM	43	64	D60TK	TAHEG	77.50
					750 rpm 150 watts	3900 CFM	6,600 CFM					
Ceiling-Mounting Fittings (no hanger pipe)								5	6		KOBON	3.25
Adjustable Floor-Column Mounting, Min. 4'11", Max. 8'4", floor to center of fan								60	65		KOCAL	20.50
Counter-Column Mounting, 1'8", base to center of fan								18	20		KODEN	11.50
Wall-Bracket Mounting, 1'2", extension from wall								15	17		KOGER	9.75
CHROMIUM FINISH FANS												
24	3	115	60 cy.	2	1140 rpm 270 watts	4800 CFM	8,000 CFM	37	52	S60WA	KLANT	56.75
					860 rpm 170 watts	3600 CFM	6,000 CFM					
Ceiling-Mounting Fittings (no hanger pipe)								5	6		KNIPS	4.50

*CFM—Cubic feet of air per minute, reading taken (Standard NEMA Test Method) one foot from fan.

‡CFM—Cubic feet of air per minute, reading taken (Standard NEMA Test Method) four feet from fan.

[2] Fans can be furnished specially for 220 volts, 60 cycles. No fans made for voltages higher than 250 volts.

Air Circulator prices apply to fans only, without mounting fittings.

Performance data subject to variation of 10% plus or minus. All data subject to change. Motor packed in box—blades and guard in separate carton.

Regularly carried in stock at St. Louis, New York, Chicago and by conveniently located wholesalers.

Move More Air QUIETLY

3-Blade Models

**QUIETER OPERATION GREATER BREEZE
PENETRATION POWERFUL BALL-BEARING MOTORS**

24-INCH AND 30-INCH FANS, 2-SPEED A.C. AND D.C.

Golden Jubilee Greater Value Features

- MOTOR:** A.C. Fans—Induction-type, fully-enclosed, streamlined design, leads extended twenty inches from motor.
D.C. Fans—Fully enclosed, brush and commutator type—[brushes readily renewable without dismantling motor.
- SHAFT:** Solid-steel shaft $\frac{5}{8}$ " diameter.
- BEARINGS:** Ball bearings, grease packed.
- LUBRICATION:** As shipped from the factory, fans will give several normal seasons of service before re-lubrication is necessary. (Approximately 6000 hours.)
- SWITCH:** Canopy pull switch in back cover of motor.
- BLADES:** All types, 3 blades, of formed, heavy-gauge aluminum—highly polished.
- GUARD:** Two-piece, ornamental-design guard of heavy-gauge wire—spot welded.
- ADJUSTMENT:** Can be tilted to any position from 8° above horizontal to 25° below horizontal on ceiling installation or vice versa in column mounting. Insulated with rubber in mounting yoke.
- STANDARD FINISH:** Types S60WA, D60TJ and D60TK, standard finish. Lustrous baked black-enamel finish on motor and guard—blades in polished aluminum.
Type S60WS standard finish (and S60WA in chromium), motor field ring and mounting yoke attachment finished in aluminum lacquer. Front end cover and back enclosing shell polished chromium plate. Highly polished aluminum blades. Guard finished in Udylite.

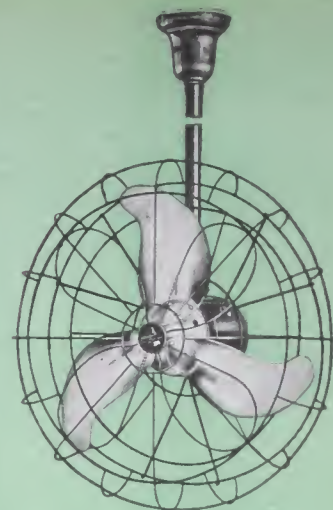
MOUNTING ACCESSORIES

- CEILING-MOUNTING FITTINGS:** Consist of motor socket, round malleable flanged hanger with four lag screws and ceiling canopy, finished in black (no hanger pipe).
- FLOOR-COLUMN MOUNTING:** Adjustable floor-column mounting permits placing the fan within the following range—minimum 4' 11", maximum 8' 4", from floor to center of fan. Base drilled for attachment to floor. Furnished with 20 feet of rubber-covered cord and plug, with connector for attachment to motor leads, installed in stand column. Base packed separately. Base finished in black wrinkle with seamless-steel tube finished in polished chromium. Coupling and motor socket finished in baked black japan.
- COUNTER-COLUMN MOUNTING:** Made in one size with center of fan 1' 8" from the bottom of the base. Base drilled for attachment to counter. Furnished with 12 feet of rubber-covered cord and plug. Connector for attachment to motor leads installed in stand column. Base and motor-socket finished in black—column, seamless-steel tube finished in polished chromium plate.
- WALL-BRACKET MOUNTING:** Furnished complete with stud, motor socket and lag screws for attachment to wood construction. Extends 14" from wall and provides swivel adjustment to either side. Finished in baked black japan.

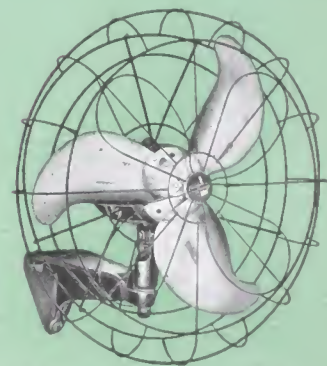
CHROMIUM FINISH SPECIFICATIONS ONLY

- CEILING-MOUNTING FITTINGS:** Motor-socket and ceiling shell finished in polished chromium plate. (No hanger pipe regularly furnished. Chromium plated hanger pipe can be furnished at \$0.75 List per foot or fraction thereof.)
- NOTE:** Floor-Column, Counter-Column and Wall-Bracket Mountings for Chromium Finish Fans—use Standard Finish Accessories.

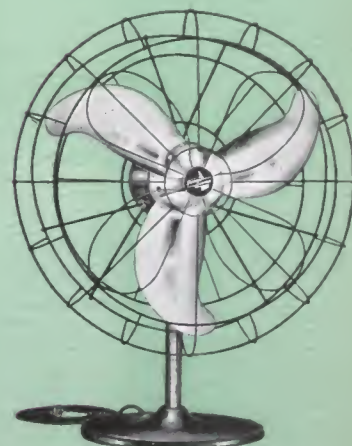
ONE-YEAR GUARANTEE



Ceiling-mounted Emerson-Electric 3-Blade Air Circulator furnished complete with flange, 4 lag screws and ceiling canopy—no hanger pipe.

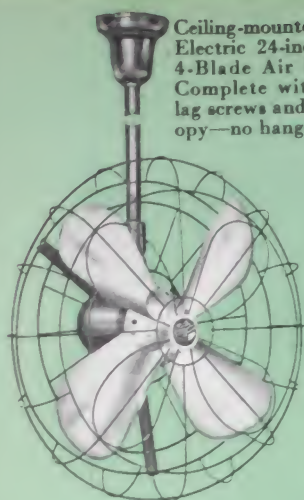


Wall-bracket mounting for Emerson-Electric 3-Blade Air Circulators. Complete with lag screws for attachment to wood construction.

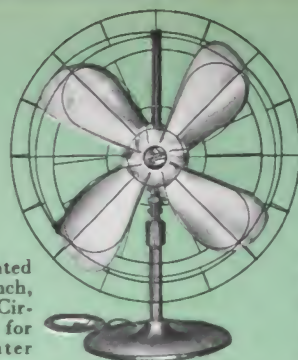


Counter-column mounting for Emerson-Electric 3-Blade Air Circulators. Base drilled for attachment to counter and equipped with protective felt.

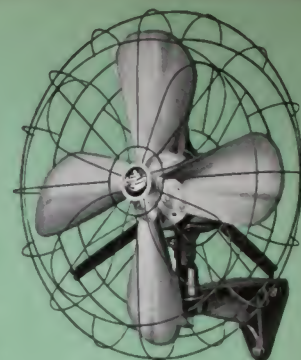




Ceiling-mounted Emerson-Electric 24-inch, 1-speed, 4-Blade Air Circulator. Complete with flange, 4 lag screws and ceiling canopy—no hanger pipe.



Counter-column mounted Emerson-Electric 24-inch, 1-speed, 4-Blade Air Circulator. Base drilled for attachment to counter and equipped with protective felt.



Wall-bracket mounted Emerson-Electric 24-inch, 1-speed, 4-Blade Air Circulator. Complete with lag screws for attachment to wood construction.

EMERSON-ELECTRIC 4-Blade Air Circulators 24-Inch, Single-Speed, 25 and 60 Cycle A.C.

Single-speed Air Circulators are suitable for many types of installations. This four-blade model has become "standard equipment" in many of America's largest institutions. It is equipped with a powerful ball-bearing motor and has polished chromium-plated steel blades. Available with adjustable floor-column, ceiling, counter or wall-bracket mounting.

Even where there is a complete installation of wall, desk or ceiling fans, the addition of Emerson-Electric Air Circulators will greatly improve the ventilation—deliver large volumes of cooling, penetrating breezes over large areas—quietly, economically.

Golden Jubilee Greater Value Features

MOTOR:	Induction-type, fully-enclosed, streamlined design, leads extended twenty inches from motor.
SHAFT:	Solid-steel shaft $\frac{1}{8}$ " diameter.
BEARINGS:	Ball bearings, grease packed.
LUBRICATION:	As shipped from the factory, fans will give several normal seasons of service before re-lubrication is necessary. (Approximately 6000 hours.)
SWITCH:	Canopy pull switch in back cover of motor.
BLADES:	Four blades, formed steel, chromium plated.
GUARD:	Two-piece ornamental design guard of heavy gauge wire—spot welded.
ADJUSTMENT:	Can be tilted to any position from 8° above horizontal to 25° below horizontal in ceiling mounting or vice versa in column mounting. Insulated with rubber in mounting yoke.
FINISH:	Standard Finish—Lustrous baked black enamel finish on motor and guard—Blades in polished chromium. Chromium Finish—Motor field ring and mounting yoke attachment finished in aluminum lacquer. Front end cover and back enclosing shell polished chromium plate. Highly-polished chromium-plated blades. Guard satin-finished chromium plate.

MOUNTING ACCESSORIES—Standard Finish

CEILING-MOUNTING FITTINGS:	Consist of motor socket, round malleable flanged hanger with four lag screws and ceiling canopy, finished in black (no hanger pipe).
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FLOOR-COLUMN MOUNTING: Adjustable floor-column mounting permits placing the fan within the following range—minimum 4' 11", maximum 8' 4", from floor to center of fan. Base drilled for attachment to floor. Furnished with 20 feet of rubber-covered cord and plug with connector for attachment to motor leads installed in stand column. Base packed separately. Base finished in black wrinkle with seamless-steel tube finished in polished chromium. Coupling and motor socket finished in baked black japan.

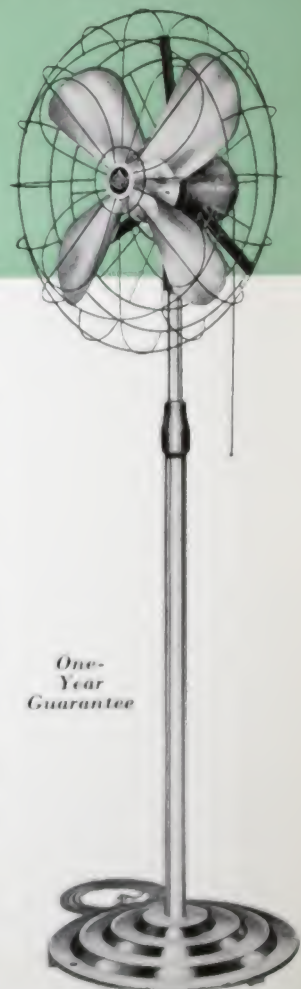
COUNTER-COLUMN MOUNTING: Made in one size with center of fan 1' 8" from the bottom of the base. Base drilled for attachment to counter. Furnished with 12 feet of rubber-covered cord and plug, with connector for attachment to motor leads installed in stand column. Base and motor socket finished in black—column, seamless-steel tube finished in polished chromium plate.

WALL-BRACKET MOUNTING: Furnished complete with stud, motor socket and lag screws for attachment to wood construction. Extends 14" from wall and provides swivel adjustment to either side. Finished in baked black japan.

MOUNTING ACCESSORIES—CHROMIUM FINISH SPECIFICATIONS ONLY

CEILING-MOUNTING FITTINGS: Motor-socket and ceiling shell finished in polished chromium plate. (No hanger pipe regularly furnished.) Chromium-plated hanger pipe can be furnished at \$0.75 list per foot or fraction thereof.

NOTE: Floor-column, counter-column and wall-bracket mountings for chromium finish fans—use standard finish accessories.



One-Year Guarantee

Size	No. Blades	Volts	Current	Speeds	R. P. M. and Watts	*Air Delivery	†Air Delivery	Weight	Type No.	Code Word	List Price Each
								Net	Pkd.		
STANDARD FINISH											
24"	4	115	60 cy.	1	1140 rpm 185 watts	8600 CFM	7000 CFM	36	52	860WC	\$48.50
24"	4	115	25 cy.	1	1425 rpm 340 watts	4500 CFM	5600 CFM	39	67	860WF	43.50
Ceiling Mounting Fittings (no hanger pipe)											
Adjustable Floor-Column Mounting, Min. 4' 11", Max. 8' 4", floor to center of fan											
Counter-Column Mounting, 1' 8", base to center of fan											
Wall-Bracket Mounting 1' 2", extension from wall											
CHROMIUM FINISH FANS											
24"	4	115	60 cy.	1	1140 rpm 185 watts	8600 CFM	7000 CFM	36	52	860WC	\$1.25
Ceiling Mounting Fittings (no hanger pipe)											
Adjustable Floor-Column Mounting, Min. 4' 11", Max. 8' 4", floor to center of fan											
Counter-Column Mounting, 1' 8", base to center of fan											
Wall-Bracket Mounting 1' 2", extension from wall											

*CFM—Cubic feet of air per minute—reading taken Standard NEMA Test Method, one foot from fan.

†CFM—Cubic feet of air per minute—reading taken Standard NEMA Test Method, four feet from fan.

Fans not be furnished separately for 220 volts, 60 cycles. No fans made for voltages higher than 220 volts.

Air Circulator prices apply to fans only, without mounting fittings. Performance data subject to variation of 10% plus or minus. All data subject to change.

Motor packed in box—blades and guard in separate carton.

Regularly stocked in stock at St. Louis, New York, Chicago and for convenience located wholesalers.

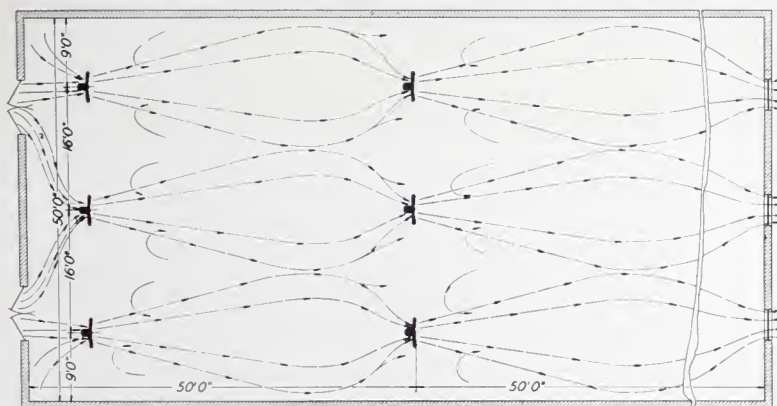
How to Install

EMERSON-ELECTRIC AIR CIRCULATORS

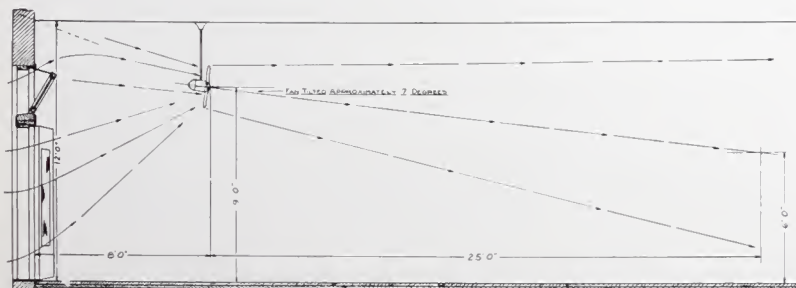
for greatest efficiency

The variety of applications for Emerson-Electric Air Circulators is as numerous and different as stores and buildings themselves. Each installation is individual, presents its own individual problems; therefore it is not possible to formulate set rules for all uses. However, some general installation suggestions indicated by these graphs and photographs are given and should be helpful.

Emerson-Electric Air Circulators are recommended for all types of buildings, wherever there is need for providing cooling breezes over large areas; such as in retail stores and shops, restaurants, hotels, taverns, industrial plants, recreation buildings, churches, etc. The conventional type fan gives localized distribution of air, and even when there is a complete installation of wall or ceiling fans, the addition of Emerson-Electric Air Circulators will do much to improve the ventilation and cooling results.



This floor plan of a store building 50 ft. x 100 ft., shows the placement of 24-inch, 2-speed Emerson-Electric Air Circulators. The fans are placed to blow from front to rear with the entry of outside air from the front doors and exhausting through windows in the rear. The location of columns, ceiling beams, and other obstructions that may reduce the free flow of air through the building, must be taken into consideration in placing the fans. The performance of the six types of Emerson-Electric Air Circulators, in unrestricted areas, are shown below. These should be used as a guide in determining the proper size, number and placement of fans for any contemplated installation, bearing in mind that while 24-inch fans may provide the desired volume and velocity of air motion, 30-inch fans are the most desirable, due to the very quiet operation on low speed. Where quietness of operation is essential, recommend Emerson-Electric 30-inch Air Circulators based on low-speed performance. It is always advisable to install adequate equipment. The difference of one or two air circulators, in a large area, may have a considerable effect on the entire installation.



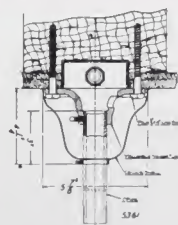
Ceiling height varies with each building; however, where possible, best results will be obtained when the fans are installed so the center of the fan is located approximately 9 feet from the floor. By tilting the fan downward at an angle of approximately 7 degrees, the fan will produce a satisfactory circulation of air at the breathing line, without causing a disturbing draft or interfering with the display of merchandise. In buildings with low ceilings, it may be desirable to mount the fans exactly horizontal or tilt them slightly upward, instead of downward, to accomplish best results. In buildings with exceptionally high ceilings, or in places where ceiling installation is not practical, one of the other three types of mountings—wall bracket, adjustable floor column, or counter column—may be used to advantage.

PERFORMANCE INFORMATION

Type	Speeds	Size	RPM	*CFM	†CFM	Maximum Velocity F.P.M.	Maximum Penetration in Feet	Maximum Distribution in Feet (Width)	Watts Input
S60WC	1-sp.	24"	1140	3600	7000	1885	60	15 ft.	185
S60WF	1-sp.	24"	1425	4500	5600	2320	75	17 ft.	340
S60WA	2-sp.	24"	1140/860	4800/3600	8000/6000	2440	80/60	20 ft.	270/170
S60WS	2-sp.	30"	1140/860	6000/4500	10000/7500	2525	110/60	20 ft.	355/195
D60TJ	2-sp.	24"	1140/750	1800/3100	8000/5200	2350	80/55	20 ft.	260/140
D60TK	2-sp.	30"	1140/750	6000/3900	10000/6600	2350	110/55	20 ft.	285/150

*CFM—Cubic feet of air per minute—high speed—reading taken (Standard NEMA Test Method) one foot from fan.

†CFM—Cubic feet of air per minute—high speed—reading taken (Standard NEMA Test Method) four feet from fan.



Detail drawing showing method of mounting the ceiling flange over outlet box and assembly of hanger pipe and ceiling canopy. Fittings furnished include flange, 4 lag screws and ceiling canopy—no hanger pipe.

New 4-Point Suspension Hanger Flange for Ceiling-Mounted Air Circulators.



Avoid...

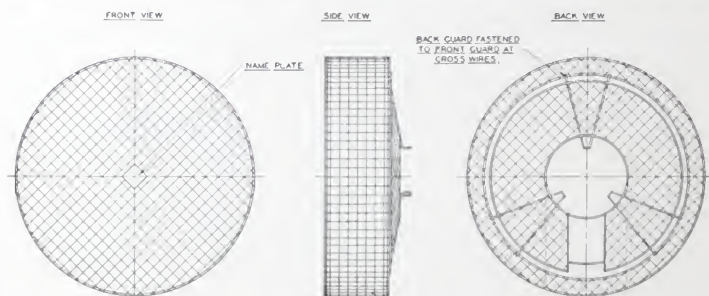
"FATIGUE LOSS"

THIS EASY WAY

Keep Workers Cool and Contented

No matter what the condition—whether it is excessive heat, stagnant air, health-wrecking gases or nauseating odors—whether it is a general condition over a large area or a local difficulty—here's a way to whip the trouble, eliminate "fatigue loss" and increase production. Install Emerson-Electric high-velocity Air Circulators and correct the condition—workers become more congenial, contented, efficient.

Protective Mesh Guards



Industrial and commercial installations of Emerson-Electric Air Circulators often require close-woven wire-mesh guards for additional protection. Fans with these guards are available in six types as listed. The guards are sturdily constructed in two-piece design, of heavy-gauge 1-inch mesh hardware cloth on front, back and side, spot welded to the guard frame.

Size	No. Blades	Volts	Current	Speeds	R. P. M. and Watts	*Air Delivery	†Air Delivery	Maximum Penetration In Feet	Maximum Distribution In Ft. (Width)	Weight		Type No.	Standard Finish	
										Net	Pkd.		Code Word	List Price
PARKER-BLADE FAN WITH MESH GUARD														
16"	4	115	60 cy.	3	1550 rpm 72 watts 1380 rpm 70 watts 1150 rpm 68 watts	1475 CFM		45		23	40	72648-AK	SALIH	\$34.00
AIR CIRCULATORS WITH MESH GUARD														
24"	4	115	60 cy.	1	1140 rpm 185 watts	3000 CFM	5900 CFM	50	15	38	55	S60WC	KACIB	\$52.50
24"	4	115	25 cy.	1	1425 rpm 340 watts	3800 CFM	4800 CFM	62	20	38	55	S60WF	KALUM	54.50
24"	3	115	60 cy.	2	1140 rpm 270 watts 860 rpm 170 watts	4100 CFM	6800 CFM	70	20	39	57	S60WA	KIFUD	58.00
30"	3	115	60 cy.	2	1140 rpm 355 watts 860 rpm 195 watts	5100 CFM	8500 CFM	82	20	43	68	S60WS	KIGEB	75.00
24"	3	115	D. C.	2	1140 rpm 260 watts 750 rpm 140 watts	4100 CFM	6800 CFM	70	20	41	59	D60TJ	TUHOD	73.00
30"	3	115	D. C.	2	1140 rpm 285 watts 750 rpm 150 watts	5100 CFM	8500 CFM	92	20	45	70	D60TK	TULAD	90.00
Ceiling-Mounting Fittings (no hanger pipe).....														
Adjustable Floor-Column Mounting, Min. 4'11", Max. 8'4", door to center of fan.....														
Counter-Column Mounting, 1'8", base to center of fan.....														
Wall-Bracket Mounting, 1'2", extension from wall.....														
										18	20		KODEN	11.50
										15	17		ROGER	9.75

*CFM—Cubic feet of air per minute, reading taken (Standard NEMA Test Method) one foot from fan.
†CFM—Cubic feet of air per minute, reading taken (Standard NEMA Test Method) four feet from fan.
Fans can be furnished specially for 220 volts, 60 cycles. No fans made for voltages higher than 220 volts.
Air Circulator prices apply to fans only, without mounting fittings.

Performance data subject to variation of 10% plus or minus. All data subject to change.
Air Circulator motor packed in box—blades and guard in separate carton. Parker-Blade Fan packed complete in carton.
Regularly carried in stock at St. Louis, New York, Chicago and by conveniently located wholesalers.

Install . .

EMERSON-ELECTRIC

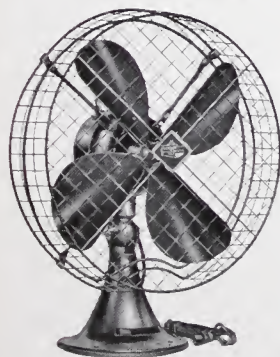
High-Velocity

AIR CIRCULATORS

Emerson-Electric High-Velocity Air Circulators are favorites of factories the nation over. Rugged, ball-bearing motors, built for heavy duty service, give 6000 hours (3 seasons) of continuous service without re-lubrication; deliver great volumes of cooling, penetrating breezes long distances and do the job at low cost. Installations can be permanent for cooling and ventilating large areas, or portable to take care of localized conditions. Available in 5 models, each with adjustable floor-column, counter-column, ceiling and wall-bracket mounting accessories. Be sure to specify the code word designating the fan you want when you order.

16-Inch Parker-Blade

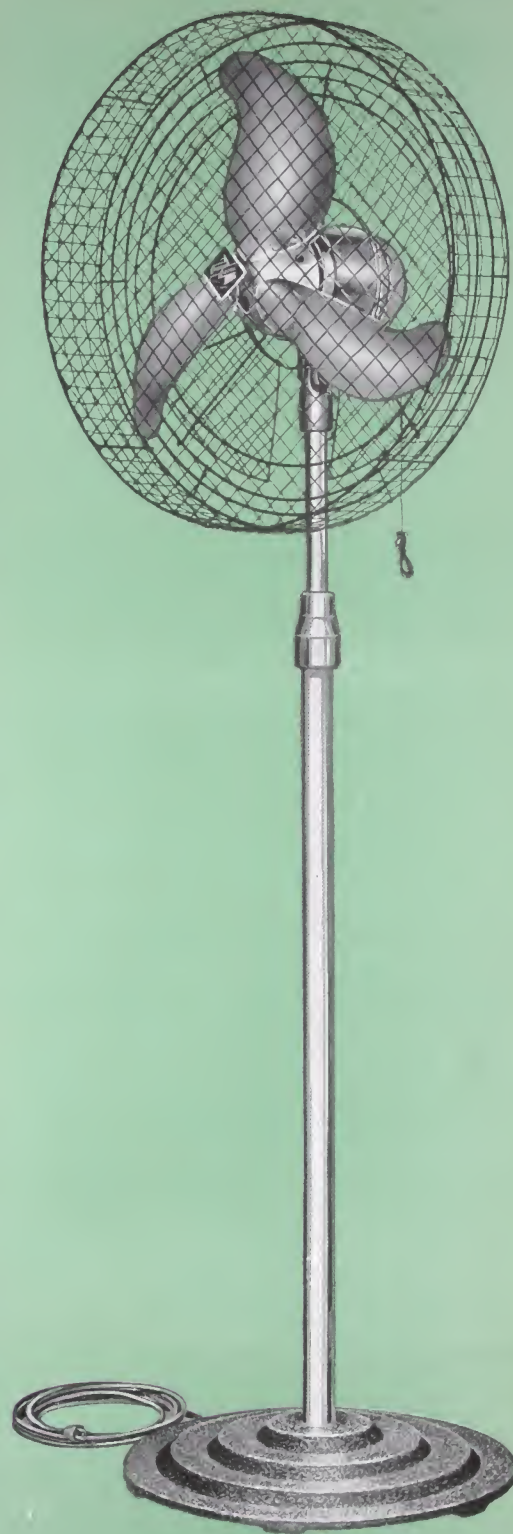
NON-OSCILLATOR WITH WIRE-MESH GUARD



A powerful, 3-speed fan, capable of delivering a large volume of cooling, penetrating breeze. Can be mounted on wall or bolted in upright position. Heavy wire-mesh guard makes the fan safe for industrial use. A really desirable feature. Backed by the famous Emerson-Electric 5-Year Factory-to-User Guarantee.

CAPACITOR MOTOR CUTS CURRENT COST 24%

That's the *plus* value in this factory-safe breeze maker that means money to you. Oil-tight, dust-proof bearing construction reduces maintenance time and expense.



PORTABLE!

Emerson-Electric Ball-bearing Air Circulators, 1-speed and 2-speed, 24 and 30-inch fans for A. C. and D. C. available with all four types of mounting accessories.



Exhausting
from Basement



Exhausting
from Attic



Exhausting
from Hallway



The Modern Way to Summer Comfort

IN HOMES • BUSINESS • INDUSTRY

